

ATC **Electric** Under Floor Heating

Comfort

ATC electric underfloor heating provides a very comfortable, efficient and economical addition or alternative to standard heating systems. Because it is installed under the floor, the walls in the room are now free and therefore it is much easier to furnish. ATC electric underfloor heating is especially suitable for refurbished floors and new floor projects. It adds a fabulous feel of comfort and warmth to bathrooms, kitchens, conservatories or any general living area where ceramic or stone tiles are laid.

Energy Efficient

By using electric underfloor heating in conjunction with the ATC thermostats it should be possible to reduce the average room temperature by about 2°C and still retain the same level of comfort. Our thermostats are easy to Install, Program and Simple to control. They are accurate to 0.4°C and offer the best opportunity in reducing energy costs.

Healthy Option

Electric underfloor heating creates a healthy and comfortable environment. There is no air movement and therefore no travelling dust particles. This greatly benefits those who suffer from asthma.

Maintenance Free

Once the ATC electric underfloor heating is installed and tested as per the installation guidelines, the system is maintenance free.

Warranty

The ATC electric underfloor heating and thermostats are manufactured to the highest European standards and quality. Once installed correctly, the cables and mats have a 10 year warranty but a much longer life expectancy. The thermostats have 3 year warranty and again a much longer life expectancy under normal installation conditions.

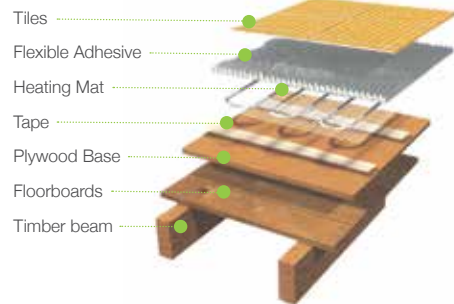


ATC Floor Types & Thermal Insulation

Timber Floors

Marine ply board must be laid over timber and chipboard floors and if possible Thermal Insulation Board (F-Board) before the heating mat is put in place. The heating mat is fixed to the F-Board and completely covered with a flexible tile adhesive before the tiles are laid.

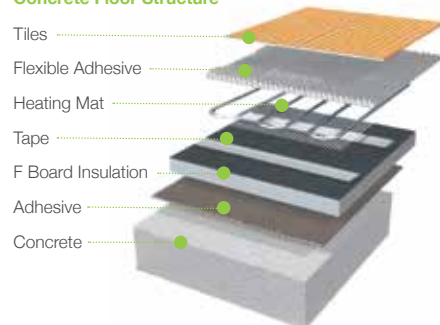
Timber Floor Structure (Suspended)



Concrete Floors

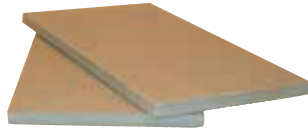
We suggest that a thermal insulation board (F-Board) is laid over and fitted on the concrete floor before the heating mat is put in place. This F-Board greatly reduces the heat-up time of the floor and insulates the floor from downward heat losses.

Concrete Floor Structure



Please note: ATC electric underfloor heating mats are not designed to be fitted under wood, carpet, cork, vinyl or laminate floors.

F-Board, Thermal Insulation Boards



We recommend that the F-Board is installed under the Heating Mats where possible.

Advantages of using F-Board

- Can significantly reduce the operating costs of electric under floor heating
- Can greatly accelerate the initial heat-up so that a comfortable floor temperature is reached more quickly after switching on
- F-Boards are made from a thermal insulation material that can accept all water based (solvent free) flexible floor adhesives and will form a strong bond without the need for further priming.
- It is recommended to use an adhesive reinforcing tape for the spaces between the boards prior to laying the cable mat.
- Can be applied to a wide range of underlying sub floor materials such as concrete, wood-fiber boards, chipboards, plasterboards, cement-fiber boards, anhydrite materials, original tiles, fixed wooden foundation, and others.

Code	F-Board Thermal Insulation Board	Box Qty	Weight
F-Board 6	1250mm x 600mm x 6mm	6	1.92kg
F-Board 10	1250mm x 600mm x 10mm	6	2.13kg

Code	Adhesive Tape
VKC273	PVC DUCT Sealing Tape 50mm X 33m

ATC Heating Mats

Timber Floors

The ATC range of electric under floor heating mats should be installed by an electrician or installer who has knowledge of underfloor heating installations. The heating mats can be laid on timber or concrete floors however it is recommended that the mat is laid on insulation board such as F-Board. This will speed up heating time and also ensure that 97% of the heat output is upwards. Heating mats are primarily used for direct heat installations.

Product Features

- Heating load is 160w/m²
- 15 Mat sizes to suit various applications
- Mat sizes from 0.5M² through to 16.25M²
- Mats can be joined together at the thermostat
- Ideal for direct heating applications
- Easy to install single end connection
- Digital or electronic thermostats for simple and accurate control
- Minimises dust and air movement
- Frees up wall space
- Completely safe
- Maintenance free

Warranty

- 10 year warranty



ATC Underfloor heating approved for use with RAKO ceramic and stone tiles

Table of Heating Mat Sizes

Code	Output	Width	Surface
160W/M ²	W	M	M ²
LDTS 160/ 0,5	80	0.5	0.5
LDTS 160/ 1	160	0.5	1.0
LDTS 160/ 1,5	240	0.5	1.5
LDTS 160/ 2	320	0.5	2.0
LDTS 160/ 2,5	400	0.5	2.5
LDTS 160/ 3	480	0.5	3.0
LDTS 160/ 3,5	560	0.5	3.5
LDTS 160/ 4	640	0.5	4.0
LDTS 160/ 5	800	0.5	5.0
LDTS 160/ 6	960	0.5	6.0
LDTS160/ 7	1120	0.5	7.0
LDTS160/ 8	1280	0.5	8.0
LDTS160/ 10	1600	0.5	10.0
LDTS160/ 11	1800	0.5	11.0
LDTS160/ 12	1800	0.5	12.0
LDTS160/ 13.3	2150	0.5	13.3
LDTS160/ 16.3	2600	0.5	16.3

Controls for Underfloor Heating

ATC Electronic Thermostat OTN-1991H11

The OTN electronic thermostat provides on/off control up to 3600W, 16A. The OTN thermostat is an easy to use thermostat; temperature control is via a simple analogue dial controlling the floor sensor.

The compact, elegant European design is attractive and functional. This thermostat is very reliable and has been on the market for twenty years, making it one of the best selling thermostats due to its reliability and long life. The OTN thermostat has a 3 Year warranty. It is accurate to 0.4°C, ensuring precise control and a high comfort level of the floor surface or room temperature.



OTN

Code	Electronic Thermostats	Box
OTN-1991H-OJA2	Electronic Thermostat	1



Controls for Underfloor Heating

ATC Digital Thermostats

The ICD3 digital thermostat for electrical underfloor heating has a built-in 4 event timer, factory set for immediate operation after installation. It is an easy to use thermostat and the pre set program can be changed to suit individual needs in seconds.

The thermostat can control a power load up to 3600W, 16A and the heating output is switched on and off with a differential of only 0.4°C. This clock thermostat has a built-in room sensor and floor limit sensor.

The new, modern design is attractive for all applications. It has a graphical backlit display for ease of use. This thermostat saves the installer time during installation and provides the end user ease of use, reliability

Code	Digital Thermostats	Box
ICD3-1999	Electronic Thermostat	1
MCD5-1999	Digital Touchscreen Thermostat 16A 3600W up to 22m ²	1
MWD5-wifi	Wi-fi enabled Digital Touchscreen Thermostat for Underfloor Heating with Built in room sensor 16A 3600W up to 22m ²	1



ICD3



MCD5-1999
MWD5-WIFI



Thermostatic programmer 24h/7day

RCD Spur wire connected to thermostat

Probe wire connected to thermostat

Mat wire connected to thermostat

Spur connection unit

Temperature sensor probe

Case Study **Ashford Castle** Under Floor Heating



Client

Ashford Castle Hotel, Mayo, Ireland

Client Requirements

Voted Travellers Choice in the 2017 Top Hotels in the World, Ashford Castle sits majestically in a splendid estate on the picturesque shores of Lough Corrib, and is one of Ireland's most impressive and romantic castle hotels.

The 83 luxurious rooms and suites of this 800 year old Castle were refurbished in 2016 and restored to their former glory.

In the refurbishment atc electric Under Floor Heating and Thermostats were installed in the bathrooms.

Product Criteria

- Energy efficient heating suitable for a hotel environment
- Provide discrete and comfortable heating
- Digital controllable output, easy to operate by Staff and Guests
- Low Maintenance
- Long Term Guarantee

Product Evaluated and Chosen:

The ATC Electric Under Floor Heating Mats were evaluated and chosen for the bathrooms in the 83 rooms as per the criteria set out by the project engineers. Along with the easy to use MCD5 touchscreen thermostat, it has proved to be a very comfortable, efficient and economical alternative to standard heating in the bathrooms of the rooms and suites of the hotel.

Year 2016

Next Day Delivery Across Ireland*



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*Order before 2.30pm & receive delivery the next day